



MF68-00271A

DIGITAL TERRESTRIAL RECEIVER

DTB-9401F

Instructions for use

REV. 1.1

DIGITAL TERRESTRIAL RECEIVER

SAFETY INSTRUCTIONS

This STB has been manufactured to satisfy international safety standards. Please read the following recommended safety precautions carefully.

MAINS SUPPLY: AC 100~240V 50/60Hz

OVERLOADING: Do not overload wall outlets, extension cords or adapters as this can result in fire or electrical shock.

LIQUIDS: Keep liquids away from the STB.

CLEANING: Before cleaning, disconnect the STB from the wall socket. Use a cloth lightly dampened with water(no solvents) to clean the exterior.

VENTILATION: Do not block the STB ventilation holes. Ensure that free airflow is maintained around the STB. Never store the STB where it is exposed to direct sunlight or near heating equipment e.g. a radiator.
Never stack other electronic equipment on top of the STB. Place the STB at least 30mm from the wall.

ATTACHMENTS: Do not use any attachment that is not recommended by the manufacturer; it may cause a hazard or damage the equipment.

CONNECTION TO THE CABLE TV SIGNAL AND TV:

Connect all components before plugging any power cords into the wall outlet. Always turn off the STB, TV and other components before you connect or disconnect any cables.

SERVICING: Do not attempt to service this product yourself. Any attempt to do so will make the warranty invalid. Refer all servicing to a qualified service agent.

LIGHTNING: If the STB is installed in an area subject to intense lightning activity, protection devices for the STB mains connector and modem telephone line are essential. The individual manufacturer's instruction for safeguarding other equipment, such as TV set, Hi-Fi, etc., connected to the STB must also be followed during lightning storms.

GROUNDING: CATV cable MUST BE EARTHED. The grounding system must comply with SABS 061.

Note : Dispose the used batteries at designated place for environment protection

WARNING!

1. Follow these directions in order not to damage the power cord or plug.

- Do not modify or process the power cord or plug arbitrarily.
- Do not bend or twist the power cord too much.
- Make sure to disconnect the power cord with holding the plug.
- Separate heat appliances from the power cord as distance as possible in order to prevent the cover from being melted.

2. Failure to follow one of them may cause electrical shock.

- Do not open the main body.
- Do not insert metals or inflammable objects inside the product.
- Do not touch the power plug with a wet hand.
- Disconnect the power cord in case of lightening.
- Do not cover the receiver's ventilation openings with items such as newspapers, clothes etc.
- Do not place the receiver on top of household appliances that emit heat.

3. Do not use the product when it is out of order. If you continue to use the product with a defect, it can cause a serious damage to the product. Make sure to contact your local product distributor when the product is out of order.

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GENERAL FEATURES

1. USER SECTION

- ▶ 400 PROGRAMMABLE CHANNELS
- ▶ ADVANCED ELECTRONIC PROGRAM GUIDE
- ▶ MULTI LANGUAGE SUPPORTED FOR OSD
- ▶ SUBTITLE & TELETEXT(OSD & VBI) SUPPORTED WITH MULTI LANGUAGE
- ▶ FULL FUNCTION INFRARED REMOTE CONTROL UNIT
- ▶ AUTO AND MANUAL SCAN FACILITY
- ▶ CHANNEL ORGANIZING (PROGRAMMABLE)
- ▶ LOW POWER CONSUMPTION
- ▶ AUTO UPDATED EPG

2. TUNER SECTION

- ▶ 50~860 MHz WIDE BAND TUNER
- ▶ RF LOOP-THROUGH OUTPUT(MALE) FOR ANALOG RECEIVER

3. VIDEO SECTION

- ▶ DVB-T COMPLIANT
- ▶ MPEG-2 VIDEO(MP@ML)
- ▶ COMPATIBLE FOR BOTH SCPC/MCPC
- ▶ SUPPORTS ASPECT RATIO 4:3(NORMAL) AND 16:9(WIDE SCREEN)
- ▶ FFT: 2K OR 8K
- ▶ 2SCART

4. AUDIO SECTION

- ▶ MPEG 1 AUDIO LAYER I & II
- ▶ MONO, DUAL, STEREO AND JOINT STEREO AUDIO MODE
- ▶ 32, 44.1 AND 48 KHz SAMPLING FREQUENCIES
- ▶ VOLUME CONTROL AND MUTE FUNCTION THROUGH REMOTE CONTROL UNIT
- ▶ SPDIF DIGITAL AUDIO OUTPUT

CONNECTING YOUR "DTB-9401F"

1. LOCATION OF THE RECEIVER

Your DTB-9401F should be placed under proper ventilation.

Don't put in completely enclosed cabinet that will restrict the flow of air, resulting in overheating.

The location should be safeguarded from direct sunlight, excess moisture, rough handling or household pets.

Avoid stacking other electronic components on the top of the receiver.

The location should be safely accessible by the cable from your antenna system.

2. CONNECTING THE RECEIVER WITH AERIALS

You can connect the receiver to the following type of aerials:

- Use a standard outdoor roof aerial intended for receiving channels between VHF and UHF.
- Because many older roof-mounted aerials may only receive a limited number of channels, it is difficult or impossible to receive digital channels transmitted on higher frequencies. If so, you may replace the roof aerial.
- Some outdoor aerials are directed towards an analogue transmitter. The aerial must be directed towards a digital TV transmitter.
- It is not desirable to use indoor or window mounted aerials, as it will be difficult or impossible to receive digital channels.

3. CONNECTING THE RECEIVER TO TV

To connect the receiver with your television, you can use Scart Cable.

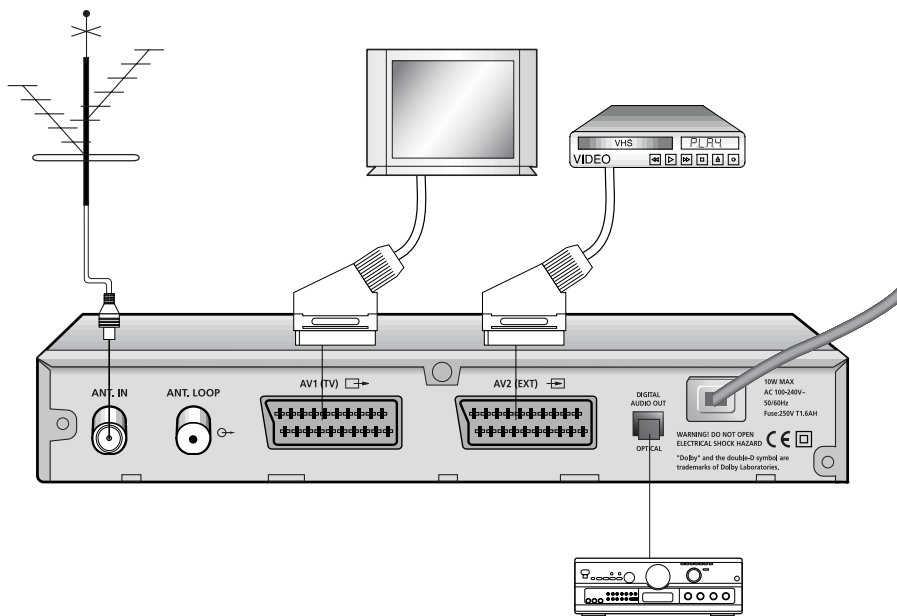
In the case of connecting your TV through SCART cable, connect the SCART connector marked TV to the respective SCART port on the TV.

4. CONNECTING YOUR VCR

To connect a VCR, the DTB-9401F has been provided with SCART at the rear marked "AV2(EXT)".

Using a SCART connector, the VCR can be connected to the receiver.

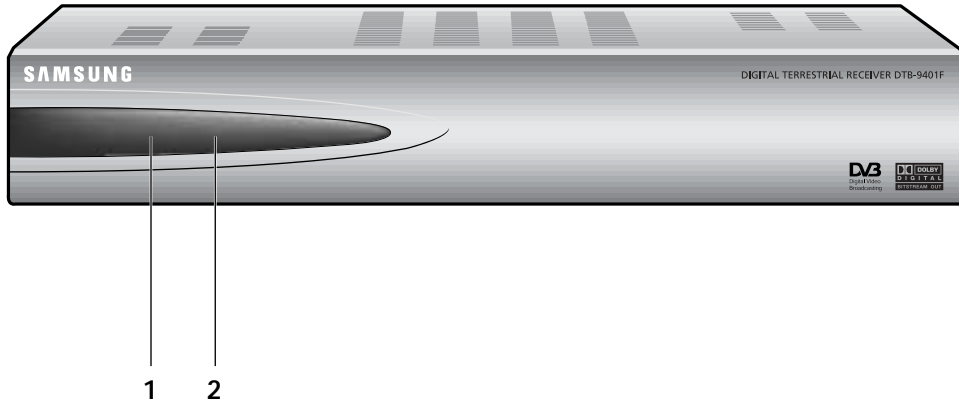
Connecting Figure



Note : In some region, the digital terrestrial signal may be weak.
So you'd better use the antenna in which the booster was built, for watching the weak signal channels.

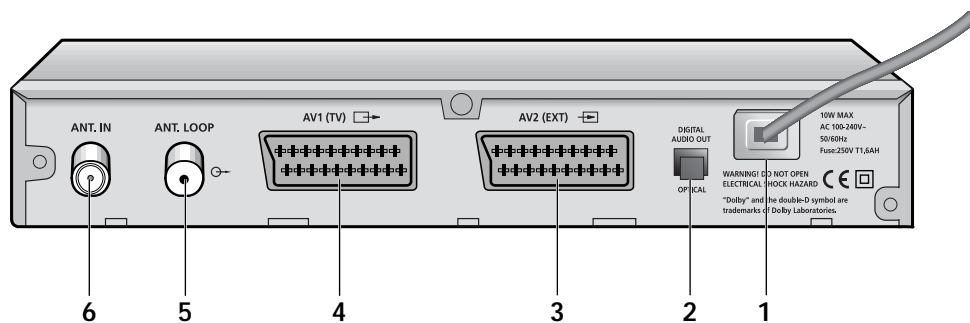
DESCRIPTION

Front Panel



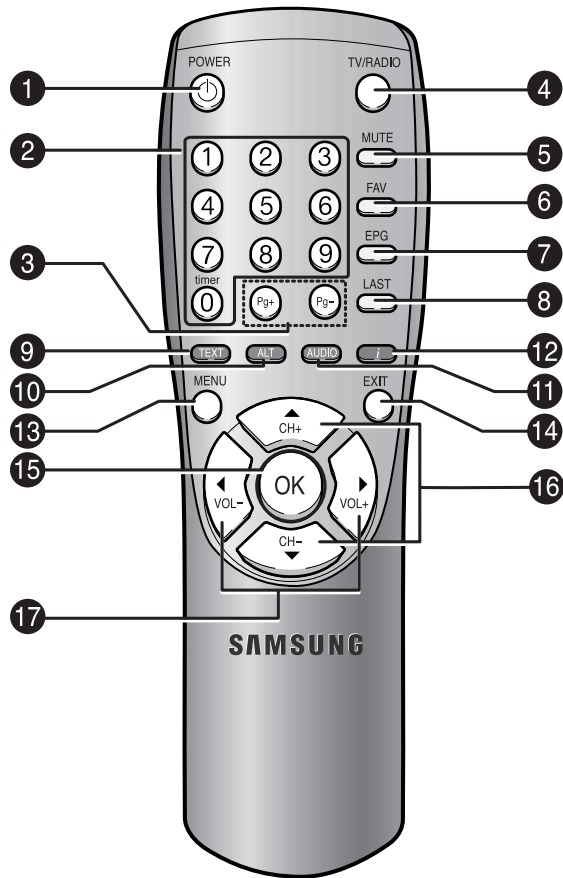
- 1. Infrared Sensor** This is to receive the IR commands from the Remote Control Unit.
- 2. LED** When the LED light Red, the set-top box enters the standby mode. When the LED light Green, it enters the operation mode.

Rear Panel



- | | |
|-----------------------------|--|
| 1. AC MAINS | This is to plug in the AC mains power cord.
The input AC voltage range is 100V to 240V, 50Hz/60Hz supply. |
| 2. DIGITAL AUDIO OUT | Output for connection to a digital amplifier. |
| 3. AV2(EXT) | This is used to connect to your VCR. |
| 4. AV1(TV) | This is used to connect to your TV. |
| 5. ANT. LOOP | This is used to connect other receiver. |
| 6. ANT. IN | This is used to connect a terrestrial antenna. |

Remote Control Unit



Note: When inserting batteries, make sure that the polarity(+/-) is correct.

1. **POWER** This is used to switch the receiver ON/STANDBY mode.
2. **0-9 Numerical keys**
These keys are to enter numeric values and to select the channel directly by entering its number.
3. **Pg+/Pg-** These keys are used to move up or down pages the menu.
4. **TV/RADIO** This key is used to toggle between the TV channel and Radio channel.

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DESCRIPTION

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- 5. MUTE** This key is used to toggle between normal & muted audio.
- 6. FAV** Use the key to switch between favorite lists.
- 7. EPG** Electronic Program Guide button displays the TV/Radio Program guide.
- 8. LAST** This key is used to call up directly whatever channel you were watching list.
- 9. TEXT(green)** This key is used to select the subtitle mode.
This button functions same as the **green** button on the menu.
Press once and subtitle appears. You can select the language you want using the **CH+/CH-** keys.
Press twice and Teletext with OSD appears.
Press three times and Teletext with VBI appears.
- 10. ALT(yellow)** This key is used to select the soundtrack list for the current service.
This button functions same as the **yellow** button on the menu.
Press once and sound track appears.
Press twice and video track appears.
The sound and video track services are not provided for every channel and depend on the conditions the operator is in.
- 11. AUDIO(blue)** This key is used to change the Audio to the left, right or both channels.
This button functions same as the **blue** button on the menu.
- 12. INFORMATION (red)** This key is used to display the programe information box in the screen.
This button functions same as the **red** button on the menu. Press once and you can get simple information on the program. Press twice and you can get detailed information on the channel in text box.
- 13. MENU** This key is used to open up the menu or return to the previous menu.
- 14. EXIT** This key is used to exit a menu or return to the previous menu.
- 15. OK** This key is used to enter and confirm any data to the receiver in the menu system. This key is used to select the item. Press while viewing TV and a list of channels is displayed.
- 16. CH+/CH-** These keys are used to change channels.
These keys are used to move the cursor to the up/down menu option.
- 17. VOL+/VOL-** These keys are used to increase or decrease the volume.
These keys are used to move the cursor to the left/right menu option.

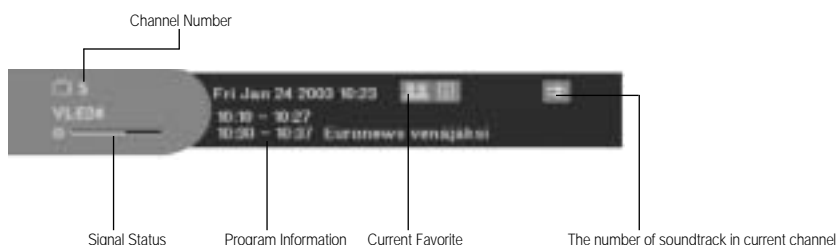
BASIC FUNCTIONS

1. Display Screen

Before you can view the television program, you must perform the installation.

Therefore you will see only menu images at first.

After the television channels have been programmed, you will see the following picture(banner) each time you switch channels:



- Press the **red(i)** key in view mode.
- Select the channel by pressing the **Numerical 0~9** keys or **▲ / ▼** keys and select the **TV/RADIO** key to move to TV or Radio channel.

You will also see this picture each time you change channels.

When you press the **TV/RADIO** key on the Remote Control Unit, **TV** and **Radio** program are toggled.

Detailed program information

- Press the **red(i)** key twice while you are viewing a program.

First you will see the banner described above.

After the **red(i)** key is pressed in the second time, detailed information for current program can be displayed on another banner, if there is more information. When this information is more than one page, **Pg+/Pg-** can be used for page up and down.

Note : This service depends on service provider.

2. Volume Control



To control the volume level :

- Press the **◀ / ▶** keys to adjust the volume level.
- Press the **MUTE** key to turn to silence mode.
- Press the **MUTE** key again or **◀ / ▶** keys in order to cancel the mute function.

3. Select Soundtrack

- Press the **ALT(yellow)** key to see the soundtrack list.
- Press the **▲ / ▼** and **OK** key to select one.





4. Select Videotrack

- Press the **ALT(yellow)** key twice to see the videotrack list.
- Press the **▲ / ▼** and **OK** key to select one.



5. Service List

- Press the **OK** key to while you are viewing a program.
- Select list by pressing the **TV/RADIO** or **FAV** key.

The icon  behind the channel name symbolises scrambled channel, and the  icon behind the channel name symbolises lock channel.

- Select the channel by pressing the **▲ / ▼**, **Pg+/Pg-**.
- Press the **OK** key to watch that channel.



The colour key corresponds the following service list.

- **Green(TEXT)** key : **Favorites**
- **Yellow(ALT)** key : **Alphabetical**
- **Blue(AUDIO)** key : **Provider**
- **Red(i)** key : **Frequency**

5.1 Service Favorites

- Press the **green(TEXT)** key on the control unit to select the Favorites list.
- Press the **green(TEXT)** key to toggle group and channel list.
- Use the **▲ / ▼, Pg+/Pg-** keys to select a favorite group that you want.



5.2 Service Alphabetical

- Press the **yellow(ALT)** key on the remote control unit to select the Alphabetical list.
- Press the **yellow(ALT)** key to toggle group and channel list.
- Use the **▲ / ▼, Pg+/Pg-** keys to select a Alphabetical group that you want.



5.3 Service Provider

- Press the **blue(AUDIO)** key on the remote control unit to select the Provider list.
- Press the **blue(AUDIO)** key to toggle group and channel list.
- Use the **▲ / ▼, Pg+/Pg-** keys to select a Provider group that you want.



5.4 Service Frequency

- Press the **red(i)** key on the remote control unit to select the Frequency list.
- Press the **red(i)** key to toggle group and channel list.
- Use the **▲ / ▼, Pg+/Pg-** keys to select a Frequency group that you want.

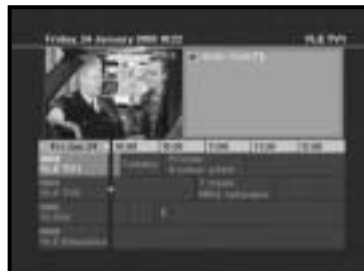


6. Program Information

EPG-Electronic Program Guide

The electronic program guide gives you a channel list for the channels.

Note: 1. This service depends on service provider.
2. After receiver recognized the GMT-time from the signal which takes few seconds, it can display correct EPG information.



- Press the **EPG** key while you are viewing a program.

This function is displayed on the screen by using only time.

- **GREEN(TEXT)** key : Green key is for moving back to the previous date.
- **YELLOW(ALT)** key : Yellow key is for moving to the next coming date.
- **RED(i)** key : This key is used to watch the program information, if there is more information than one page. Use the **Pg+/Pg-** keys to move up and down pages.
- **◀/▶** key : Use to display the program list by 30 minutes per block.

Time interval can be adjusted by press keys as followings on EPG screen:

1 Key: 1 hour and 30 minutes **2 key:** 30 minutes **3 key:** 15 minutes

With the **TV/RADIO** or **FAV** key you can browse among the various programs lists.

- Select the channel by pressing the **▲ / ▼**, **Pg+/Pg-** keys and press the **OK** key to watch this channel.

7. Subtitle

When the current broadcasting program provides subtitle, press the **TEXT** key to see the current subtitle language list. If Subtitle is available on current program, [S] is displayed on the banner after changing program(channel) or pressing the **red(i)** key.

To change the subtitle language:

- Press the **TEXT** key to see the subtitle language List.
- Use the **▲ / ▼** keys to select a subtitle language you want.
- Press the **OK** key and then the subtitle language you want is displayed.



The menu display is carefully created and user friendly to assure the easy operation of the receiver by the user.

8. Teletext OSD

When the current broadcasting program provides Teletext OSD, press the **TEXT** key twice to see the current Teletext OSD list.

To change the Teletext OSD:

- Use the **▲** / **▼** keys to select a **Teletext OSD** you want.
- Press the **OK** key and then the **Teletext OSD** you want is displayed on the screen.



9. Teletext VBI

When the current broadcasting program provides **Teletext VBI**, press the **TEXT** key three times to see the current Teletext VBI list.

To change the Teletext VBI:

- Use the **▲** / **▼** keys to select a **Teletext VBI** you want.
- Press the **OK** key and then the **Teletext VBI** you want is displayed on the screen.



Note : A television with TV functions supported shall be used.
The system shall operate with the subtitle turned off.

10. Audio Mode

You can choose a mode among left, right or stereo using the **AUDIO** key.

To change the audio mode:

- Press the **AUDIO** key to select the left, right or stereo.
- Press the **EXIT** key to save and escape from this menu.



OPERATING THE RECEIVER

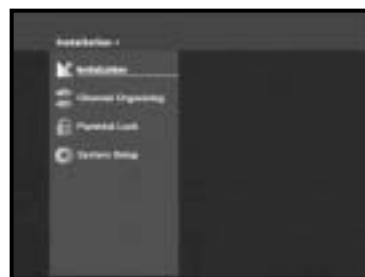
Main Menu

After installing your antenna system and DTB-9401F with appropriate connectors.

- Plug in the AC main power and switch on the receiver.
- Press the **MENU** key to bring up the main menu.

The following on screen display will appear:

The sub menu topics will be displayed from 1 to 4.
For the sub-menus 1, 2 and 3 you need the PIN Code.



1. Installation

This menu consists of 3 sub-menus:

Manual Scanning, Auto Scanning and Reset to Factory Default.

- Select "**Installation**" in the main menu mode to select the sub menu.
- Enter the **PIN** Code.

If you have not entered your own **PIN** Code then the **PIN** Code **0000** applies, which was set at the factory.

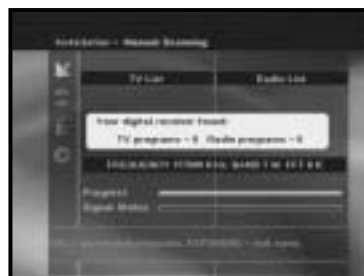


1.1 Manual Scanning

To tune-in new channels and weak signals, the DTB-9401F has been provided with the option "**Manual Scanning**" where the channel data can be entered by the user.

After selecting the "**Manual Scanning**" from the Installation Menu, the following screen will be displayed:

- Select the channel which you want to find.
- Input the frequency of the channel you want to find.
- Select the bandwidth.
You can select the value of **6**, **7** or **8** MHz.
- Select the FFT (Fast Fourier Transform) Mode.
You can select the value of **2K** or **8K**.
- After select option, press the **OK** key to start the scanning process.



1.2 Auto Scanning

The sub menu “**Auto Scanning**” will enable download of the channels automatically from the preprogrammed load.

To download channels automatically:

- Select the region which is possible in your location for Auto search.
- You can select All or Only Free option mode.
 - All** : Scanning all the channels
 - Only Free** : Scanning free channels
- Select the FFT (Fast Fourier Transform) Mode. You can select the value of **2K** or **8K**.
- Setting the maximum or minimum frequency.
- Press the **OK** key.
Auto Scanning menu will be displayed.
All the channels in the list will be automatically downloaded.



1.3 Reset to Factory Defaults

This to restore the factory set values in case the user has encountered some problems after changing any values of channel data and others which may be in error.

At the request window, if you press the **OK** key, the receiver will be reset to factory default settings automatically.

Note : This cause your previous settings to be deleted!



2. Channel Organising

The “**Channel Organising**” menu has six functions:
The “**Channel Organising**” menu is used to delete the Frequencies and Channels or to make Favorite channels or move channel as you want.

- Enter the **PIN** Code.

If you have not entered your own **PIN** Code **PIN** Code **0000** applies, which was set at the factory.



2.1 Delete Frequency

- Select the desired frequency list you want to delete by pressing **red(i)** key.
- Press the **OK** key for confirmation.

Note : This feature doesn't delete frequency itself but deletes the list of channels registered for frequency.



2.2 Delete Channel

- Select the desired channel you want to delete by pressing the **red(i)** key.
- Press the **OK** key for confirmation.



2.3 Delete All Channels

At the request window, press the **OK** key to delete all channels and press the **MENU / EXIT** to exit.



2.4 Delete Scrambled Channels

At the request window, press the **OK** key to delete scrambled channels and press the **MENU / EXIT** to exit.



2.5 Favorite Channels

You can immediately register the present channel to the desired Favorite Group.

In addition, you can register a channel to multiple favorite groups.

- Select the desired Favorite Group (FAV1 ~ FAV9) using the **FAV** key.
- Select the desired channel list using the **▲ / ▼** or **Pg+/Pg-** keys at the **TV** or **RADIO** list window.
- Press the **red(i)** key and then register the selected channel at the Favorite Group.
- Then press the **OK** key for confirmation.

You can change TV list or Radio list by the **TV/RADIO** key and change favorite list by the **FAV** key.

- When you press the **TV/RADIO** key, TV list and Radio list are toggled.
- Press the **FAV** key to select another favorite list.

To delete channels from Favorite Group:

- Select a channel list to delete with **▲ / ▼** or **Pg+/Pg-** keys.
- Press the **red(i)** key to delete the selected channel from the favorite channels.



2.6 Move & Edit Channel

- Select the TV/RADIO list with ◀ / ▶ keys.
- Select the TV/RADIO list with ▲ / ▼ or **Pg+/Pg-** keys.
- Select channel by pressing the **red(i)** key.
- Press the ▲ / ▼ or **Pg+/Pg-** keys to change the position of the channel you want, and press the **OK** key for confirmation.
- If you want to return the channel to the initial position, do not press the **OK** key but press the **blue(AUDIO)** key.



To edit Channel Name

- Select the TV/RADIO list with ◀ / ▶ keys.
- Select a channel list to move to other location with ▲ / ▼ or **Pg+/Pg-** keys.
- Press the **green(TEXT)** key. Font Table will be displayed.
- Select desired font table using the **Num.1~5** keys.
- Select desired character with ◀ / ▶, ▲ / ▼ and then press the **OK** key to paste character to the string.



Note : **Pg-** key : Backspace.

- Press the **MENU** key and then press the **OK** key to save the set data.

3. Parental Lock

This **"Parental Lock"** feature sets viewing restrictions and prevents unauthorized access to your DTB-9401F through the PIN (Personal Identification Number), which is a 4 digit number. (The factory preset PIN Code : **0000**)

On selecting this menu, you will have two options: to set lock for any desired channel and to change your PIN value.

- Enter PIN Code.

If you have not entered your own PIN Code then the **PIN** Code **0000** applies, which was set at the factory.



3.1 Set Channel Lock

- Select the TV or RADIO channel window by pressing the ◀ / ▶ or **TV/RADIO** key.
- Select the channel by pressing the ◀ / ▶ or **Pg+/Pg-** keys.
- Select the channel lock by pressing **red(i)** key.
- Press the **OK** key for confirmation.

This will lock the channel. Whenever you need to view the channel, you will have to enter the PIN at the request window.

After entering PIN Code to able to access a parental locked channel, it will work on all parental locked channels.

It means that you can access all parental locked channels with entering PIN Code on any parental locked channel successfully.



To cancel the lock :

- Press the **red(i)** key again in order to cancel the lock.

3.2 Change PIN Code

To change the PIN Code, select the second option "**Change PIN Code**".

This will take you to the following menu:

In this option, you need to enter the current PIN Code at the first cursor, and at the second cursor enter the desired PIN Code.

To confirm, you need to enter the new PIN Code again.

Please remember the PIN Code should be a 4 digit numerical value.

THE FACTORY PRESET PIN CODE : **0 0 0 0**.



Note : If you forget the PIN Code, contact your dealer or service provider.
Once you change password, please do not forget and keep well.

4. System Setup

This option enables you to change the factory preset system settings as per your requirements.



4.1 Language Selection

The "Language Selection" option allows the user to select the desired language of the OSD, Soundtrack, Teletext, Subtitle or EPG.

- To accommodate user from different regions speaking different languages, OSD languages are available 18 languages.
- To select the desired language menu, press the ◀/▶ keys to change language and press the **OK**.
- The OSD Language, Soundtrack, Teletext, Subtitle, or EPG will vary according to the selected language.



4.2 OSD Setting

You can set the OSD transparency and the display time.

- Select OSD Transparency level.
The OSD Transparency level from 0 to 100%.
Setting is made with the numeric keys, ◀/▶ keys or **Pg+/Pg-** keys.
◀/▶ keys : Setting in increment of 1%.
Pg+/Pg- keys : Setting in increment of 10%.
- Set the display duration of the information(banner) box displayed in the screen.
The time ranges from 0.5 to 60.0 seconds.
Setting is made with the numeric keys, ◀/▶ keys or **Pg+/Pg-** keys.
◀/▶ keys : Adjusting in increment of 0.5sec.
Pg+/Pg- keys : Adjusting in increment of 1 sec.
- Set the DVB subtitle : **ON/OFF**



4.3 Media Settings

You can set the various media settings you want.
Place the cursor on this sub menu and press the **OK** key.

- Press the **▲ / ▼** keys to move the sub items and press the **◀ / ▶** keys to select the option.
- Press the **OK** key to confirm.
- Press the **MENU/EXIT** keys to exit the menu.
- Select the TV system : **PAL** or **SECAM**.
- Select the **TV** type according to your **TV**:
STANDARD **4: 3** ratio or WIDE SCREEN **16 : 9** ratio type.
- Select the aspect ratio conversion :
Letter box, Pan & Scan, Mixed or **Full**.
- Select the Video Signal Type :
Composite+RGB or **Composite**.



4.4 Time & Timer Setting

Various time modes can be set, such as current local time, switch on/off time. The exact local present time can be adjusted by using the GMT.

- Place the cursor on this sub menu and press the **OK** key.
- Press the **Pg+/Pg-**, **◀ / ▶** keys to change the Local time in Time Zone. The local time will be changed according to your location.



GMT is referred to the standard time of Greenwich.
This cannot be changed.

- Press the **◀ / ▶** keys to choose event repetition you want to reserve : Daily, Every Sunday, Every Monday, Every Tuesday, Every Wednesday, Every Thursday, Every Friday, Every Saturday, Once.
- Press the **Numerical (0~9)** keys to set the time you want and press the **◀ / ▶** keys to choose a switch time you want to reserve.
- Select TV program to set the event program by pressing **◀ / ▶** keys.
When you press the **TV/RADIO** key, TV program and Radio program are toggled.

4.5 System Information

If you have to contact your service provider or a service center they might ask for information available from this menu. Place the cursor on this sub menu and press the **OK** key. The following will be the on-screen display.



4.6 Software Upgrade

You can download and upgrade the system software of the receiver through a specific channel through a specific channel designated by the broadcaster.

The distributor will provide you with more information about that.

If you select to download a new software version, all your previous settings, access code and favourite channels etc. will be erased! Downloading may take a while during downloading don't turn off the receiver.

TROUBLESHOOTING

*In some region, the digital terrestrial signal may be weak.
So you'd better use the antenna in which the booster was built,
for watching the weak sinal channels.*

*You can download and upgrade the system software of the receiver through
a specific channel through a specific channel designated by the broadcaster.
The Distributor will provide you with more information about that.*

Problem	Possible cause	Solution of the problem
No display LED on the front panel; No power supply	Power cord not plugged in correctly	Power cord plug in correctly Back switch in correctly
No pictures on the screen	Receiver in Standby mode; Scart not connected tightly to video output of television; incorrect channel or video output selected on television	Set receiver to "On"; Check connection and correct; Check channel and video output and correct (TV instruction manual)
No sound	Audio cord connected incorrectly; Loudness level = 0; Muting active	Check connection and correct; Increase loudness on television set; Press the MUTE key
Remote Control does not operate directly	incorrect operation; Batteries dead or inserted incorrectly	Point remote control towards the Receiver. Replace batteries or insert correctly
Poor picture quality	Signal strength too low	Check the signal strength in the "Auto Scanning" menu, correct alignment of your antenna
On-Screen Error Message "Searching for signal"	Antenna cable not connected or not tight; incorrect position of the antenna;	Check connection and correct; Check position and correct, Check the signal strength in the "Auto Scanning" menu
On-Screen Error Message "Channel data does not exist."	Receiver not yet set	Scanning of in "Automatic scanning" or "Manual scanning" menu

DISPOSAL

The device, packaging material (e.g. Styrofoam) and the batteries must never be disposed of with household refuse.

Please obtain appropriate information about the regulations in your community, and dispose of all refuse in accordance with regulations at the separate locations provided.

TECHNICAL SPECIFICATIONS

Power supply

Type :	SMPS
Input Voltage :	AC 100 - 240V 50/60 Hz
Fuse rating :	250 V/T1.6 AH
Power Consumption :	Max. 10W
Stand by :	7W

Demodulator

Type :	COFDM DEMODULATION (DVB-T)
FFT :	2K OR 8K
Code Rate :	1/2,2/3,3/4,5/6,7/8
Guard Intervals :	1/4,1/8,1/16 & 1/32

RF Input

Input Connector :	IEC, Female
Frequency range :	50 ~ 860 MHz
Input Signal Level :	-78 ~ -20 dBm
Loop Through :	50 ~ 860 MHz, IEC, Male

Video decoder

System decoding :	MPEG 2 ISO/IEC 13818 (transport stream)
Profile and level :	MPEG 2 MP@ML (4:2:2)
Data rate :	1~ 15 Mb/s
Video formats :	4:3 (normal) & 16:9 (widescreen)
Picture resolution :	720(H) x 576(V) x 50 fields/sec

Audio Decoder

System decoding :	MPEG 1 ISO/IEC 11172~3 layer I & II
Audio mode :	single channel, dual channel, stereo, joint stereo
Sampling frequency :	32, 44.1, 48 KHz

Note : The specification of the STB may be changed without notice in advance.

TECHNICAL SPECIFICATIONS

BASE-BAND AUDIO/VIDEO OUTPUT

VIDEO

Video Type :	PAL, SECAM
Interface :	2 SCART (TV, VCR)
Impedance :	75 Ω
Output level :	1Vp-p

AUDIO

Inteface :	2 SCART (TV, VCR)
Impedance :	600 Ω
Output level :	3.0Vp-p max (controllable)
Frequency response :	\pm 3dB (20~15kHz)
DIGITAL AUDIO (S/PDIF) :	Connector : Fiber-Optic

MEMORY

Flash :	2MB
SDRAM :	8MB

PHISICAL SPECIFICATION

Size (W x D x H) :	233 x 176 x 38 mm
Weight (Net) :	0.95Kg

MEMO

MEMO

MEMO